English	French	German	Polish
X			

Quick Guide for HD Economic DVR
H.264 HD SDI Digital Video Recorder (Ver 1.0)

Before installing and using this unit, please read this quick guide carefully. For more detail information, please read a user manual in the enclosed CD.

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1. Main Features

Powerful & Flexible

- **Quadplex**
  Recording + Search + Archiving + Network
- **Dual Stream**
  Dual Stream is the most powerful technology to encode the recording and network frames of the DVR separately. The recording and network frames are able to be selected respectively by DVR setup. It means users may set the frames by their own need for the fast network speed to minimize the network traffic while keeping full recording frames.

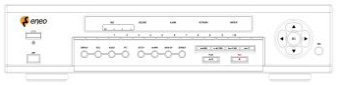
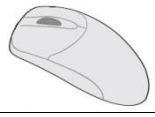
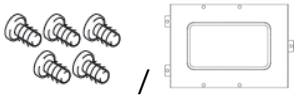
Easy To Use

- **Quick Setup: Automatic HDD Capacity Calculation**
  New products support the most convenient solution to set up DVR at the first. Enter the days for the recording duration and then DVR sets up the recording parameters such as resolution, frame rate and quality. It is the useful and easiest for the end user to estimate how long HDD can last recording.
- **Individual Channel Operation**
  The resolution of each channel can be individually operated. This feature provides the end user with easy HDD maintenance and high efficiency to get the high video quality on the specific channel. For instance, the end user is able to give higher resolution to the camera for the cash counter.
- **Remote Setup**
  New products provide the user with the convenient management solution by the remote configuration through UMS single client S/W, UMS multi clients S/W and web viewer on Internet Explorer. User is able to control Display, Recording, Device and etc of DVR from remote sites wherever it is.
- **Mobile Viewer (iPhone, Android, Blackberry)**
  Mobile application makes the real time monitoring available anytime, anywhere. Currently, iPhone, Android and Blackberry application are ready. Windows mobile will be coming soon. Search "i-UMS" on App store or Market. It's free.
- **S.M.A.R.T**
  S.M.A.R.T is the function to check the health status of hard disk regularly. Hard disk has the moving part and it is very sensitive for the temperature and shock. User sets up the temperature and then when the temperature inside DVR goes higher than it, the recording device gives the end user the notification by beeping and alarm before the recording device becomes to be in trouble. Smart DVR and Secure your property!!

2. Entry HD SDI DVR 4CH

2-1. Product Components

The package contains the main unit and its components as specified below. When you purchase the unit, please check to ensure the components specified below are included.

DVR Set		Mouse (Option)	
Client Software CD / Quick Guide		Remote Control / Battery	
HDD mounting screw / mounting bracket		HDD data power cable	
Adaptor(DC 12V 5A) & Power Cable		Audio Cable	-

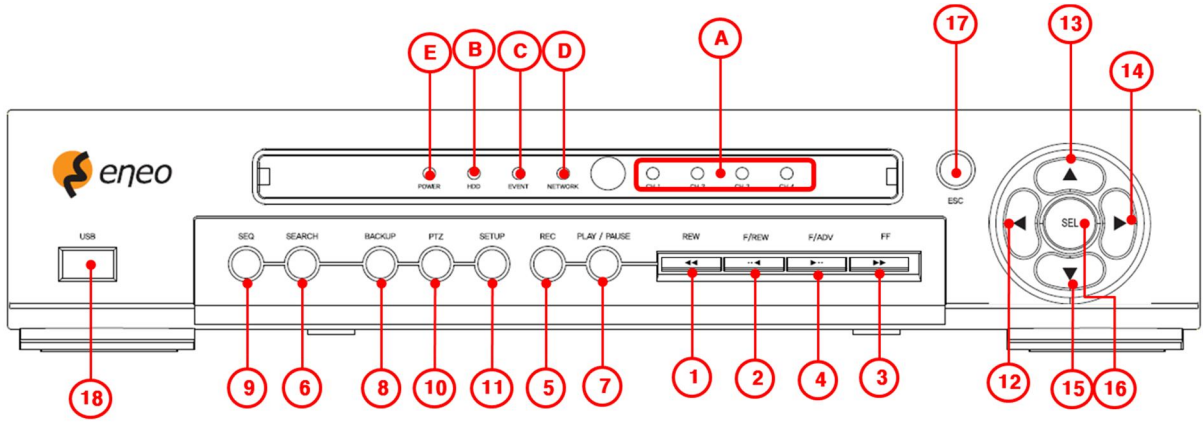
2-2. Specifications

ITEM			HDR-4004AE1.0
Video	Input	Channel Input Level	4CH HD-SDI (720p25/30/50/60, 1080p25/30, 1080i50/60)
	Output	Main Monitor	HDMI (Max. 1920x1080)
		Sub Monitor	VGA (Max. 1920x1080)
		HD-SDI Monitor	-
		CVBS	-
		SPOT	-
Audio	Input		4CH Line Input
	Output		1CH Line and HDMI Output
	Audio Codec		G.711
Alarm	Sensor Input		4CH, NC/NO Selectable
	Alarm Out		1/2CH out by Sensor, Motion and Video Loss
Operation	PentaPlex		Live/Record/Playback/Backup/Network
Live	Digital Zoom		-
	Channel Sequence		3 ~ 60 seconds Auto
Recording	Compression		H.264
	Resolution		Up to 1920x1080
	Recoding Quality Grade		5 Levels
	Recording Mode		Continuous, Schedule, Motion, Sensor, Manual
	Motion Detection		Setup by Grid
	Pre Recording		Min. 15 seconds and Max. 20 minutes
	Post Recording		10 ~ 60 seconds
Playback	Digital Zoom		Zoom-in of specific area
	Speed	FF	x1/4, x1/2, x2, x4, x8, x16, x32, x64
		FR	x2, x4, x8, x16, x32, x64
	Search Mode		Timeline, Event, Archive, Log, Specific Time
Backup	File Format		BMP/Proprietary Format
	Media		USB/External HDD/DVD/Network
	Built-in Viewer		Yes
Network	Dual Streaming for Live		640x360 and 320x180
	Playback		H.264 HD
	Streaming		RTP/RTSP/RTCP
	Protocols		HTTP, DDNS, NTP, SMTP
Storage	HDD	Interface	SATA, e-SATA
		Max. Capacity of HDD	2TB
		Max. Internal HDDs	2EA
	External Storage		1/2 e-SATA for RAID
	Filesystem		Self-developed, Reliable and Stable File system
	S.M.A.R.T		HDD Error Check and Reporting
User Interface	Menu Display		Graphic User Interface
	Input Method		Front Buttons, IR Remote control, Mouse, Keyboard controller
Serial	POS		1 RS-232C
	PTZ & Controller		1 RS-485
Network	Ethernet		RJ-45, 10/100/1000Base-T, Auto MDI/MDIX

Network Access	Web Viewer	Live, Search/Playback, Backup, PTZF, Remote Setup/Upgrade
	Single-site monitoring software	Live, Search/Playback, Backup, PTZF, Remote Setup/Upgrade
	Multi-sites monitoring software	Live, Search/Playback, Backup, PTZF, Remote Setup/Upgrade
Features	DST (Daylight Saving Time)	Yes
	Internal Beep	By Video Loss, HDD Error
	Multi Language	Yes (more than 20 languages)
	Software Upgrade	By USB, Network Remote Upgrade
	NTP	Yes
	Watermarking	Yes
	3G Mobile	iPhone, Android, Blackberry
General	Operation Condition	5°C - 40°C, During storage: -10°C - +50°C
	Power	DC 12V 5A
	Net Weight (Gross Weight)	
	Unit Dimension (W x D x H)	380mm x 340mm x 72mm (14.96" x 13.38" x 2.83")

<Please note that specifications and unit exterior design are subject to change without notification>

2-3. Front Panel



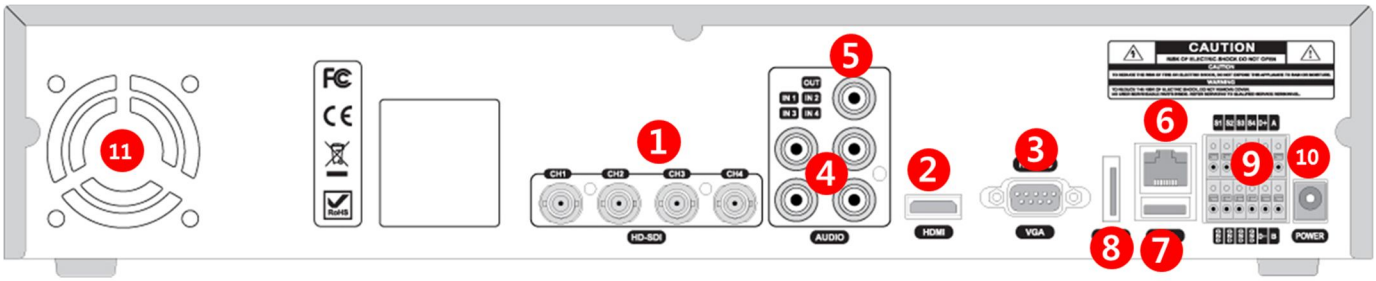
Indication lamps

NO.	Name	Description
A	**CH1~4**	Indicating that the channel is being recorded.
B	**HDD**	Indicating that the system is accessing the hard disk.
C	**ALARM**	Indicating that when sensor(s) is/are triggered or motion is detected.
D	**NETWORK**	Indicating that when Network client connects through the network.
E	**POWER**	Indicating that the system is switched on.

Front panel buttons

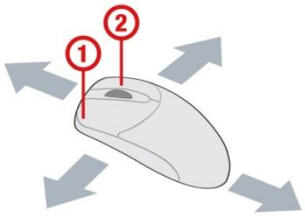
NO	Name	Description
1		Press to rewind the footage in playback mode.
2		Jump/Step backward. In playback mode, the playback position moves 60 seconds backward.
3		Press to fast forward the footage in playback mode.
4		Jump/Step forward. In playback mode, the playback position moves 60 seconds forward.
5		Press to start or stop manual recording.
6		Press to go to SEARCH menu in live display mode.
7		Press to play/pause the footage in playback mode.
8		Press to enter SETUP menu.
9		Enable/disable the automatic sequence of display of channels in full screen, quad, 9-split display mode.
10		Press to control Pan/Tilt/Zoom operations.
11		Press to capture video in jpeg format in live or playback mode.
12	◀(**LEFT)**	Press to move left or to change the values in Setup mode. It is also used as the number 4 when entering password.
13	▲(**UP)**	Press to move up the menu in Setup mode. It is also used as the number 1 when entering password.
14	▶(**RIGHT)**	Press to move right or to change the values in Setup mode. It is also used as the number 2 when entering password.
15	▼(**DOWN)**	Press to move down the menu in Setup mode. It is also used as the number 3 when entering password.
16		Press to select desired menu item or to store the setup value.
17		Press for temporary storage of the changed value or to return to the previous menu screen.
18	**USB Port**	To archive still-image or video into a USB memory or upgrade firmware with USB memory stick, connect a USB memory to the USB terminal.

2-4. Rear Panel



① VIDEO IN: Video input terminal
② HDMI OUT: 1920X1080 Main Monitor
③ VGA: VGA (Video Graphics Array) output terminal. Connects to the PC VGA monitor.
④ AUDIO IN: Four connectors for audio input.
⑤ AUDIO OUT: One connector for audio output.
⑥ ETHERNET: Network terminal
⑦ USB: USB terminal
⑧ ESATA: External SATA terminal
⑨ SENSOR IN & ALARM OUT: External sensor terminal & External alarm out terminal
⑩ POWER: DC12V input terminal
⑪ Cooling fan

3. Basic function of MOUSE (Option)



① : Left button: SELECT function

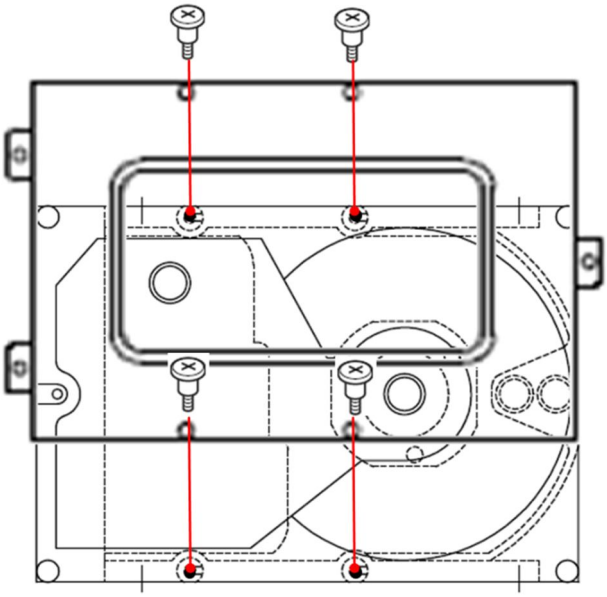
② : Wheel: MOVEMENT function on a drop-down menu

4. Basic function of Remote Control

① **ID:** When a remote control ID number is set in DVR, press it before number.
② **REC:** To start and stop manual recording.
③ **Number:** To select channel (1, 2, 3, & 4) or to enter DVR ID number.
④ **--◀ (F/REW):**
During playback - To move the playback position 60 seconds backward.
During pause - To move the playback position 1 frame backward.
⑤ **▶-- (F/ADV):**
During playback - To move the playback position 60 seconds forward.
During pause - To move the playback position moves 1 frame forward.
⑥ **◀◀ (REW):** To rewind the footage at 1x, 2x, 4x, and more speed during playback.
⑦ **▶/II (PLAY/PAUSE):** To play or to pause the footage in playback mode.
⑧ **▶▶ (FF):** To fast forward the footage at 1x, 2x, 4x, and more speeds during playback.
⑨ **Control button:** Press to move the menu items or select channel.
⑩ **SETUP:** To launch SETUP menu.
⑪ **SEARCH:** To go to the search menu.
⑫ **ESC: During setting -** To return to previous menu screen.
During playback - To exit from playback
- System Lock – to lock a system when pressing ESC button for 5 seconds.
- System Unlock – to unlock a system when pressing ESC button for 5 seconds.

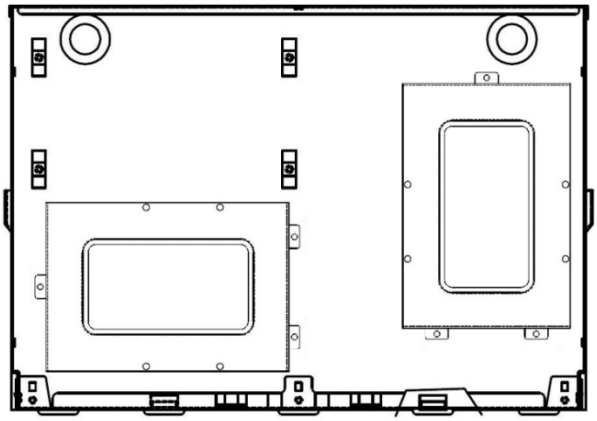
⑬ **BACKUP:** To start operations of backup in live or playback mode. (The same function button as CAPTURE on the front panel of DVR in case of New Entry and Mighty series)
⑭ **SEQ:** To start auto sequencing of the screen in full screen mode. (Toggle)

5. Mounting the HARD DISK

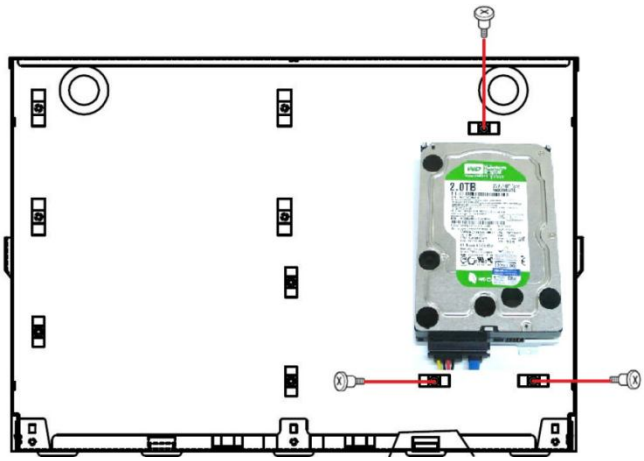


1. Before installing bracket and screws onto HDD

2. After installing bracket and screws onto HDD



3. Installation HDD and Bracket onto base case (Inside)

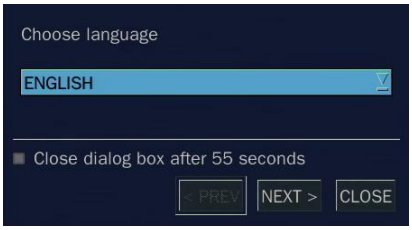


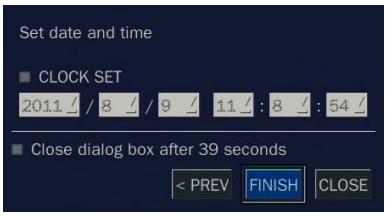
4. Installation HDD and Bracket onto base case (Outside)

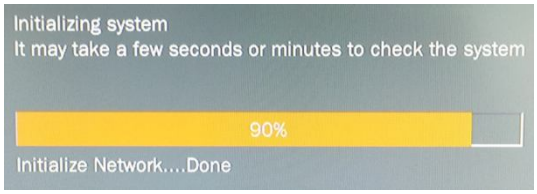
5. After connecting power cable and data cable with HDD

6. Quick Setup

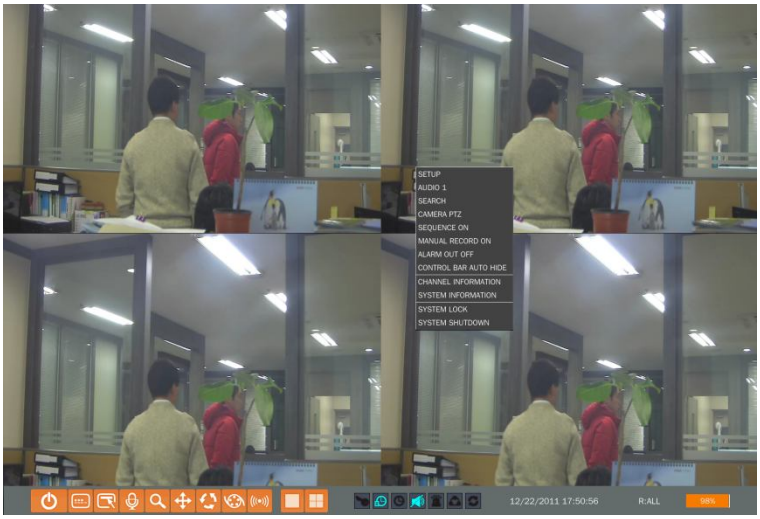
When booting a system at first, the following messages display. After initializing, select a language and set the time.

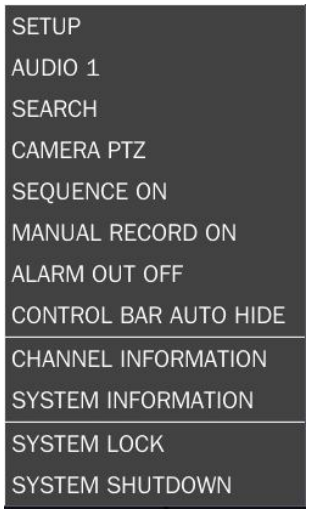






To enter the setup menu, select a right button of the mouse or press the SETUP button on the remote control.

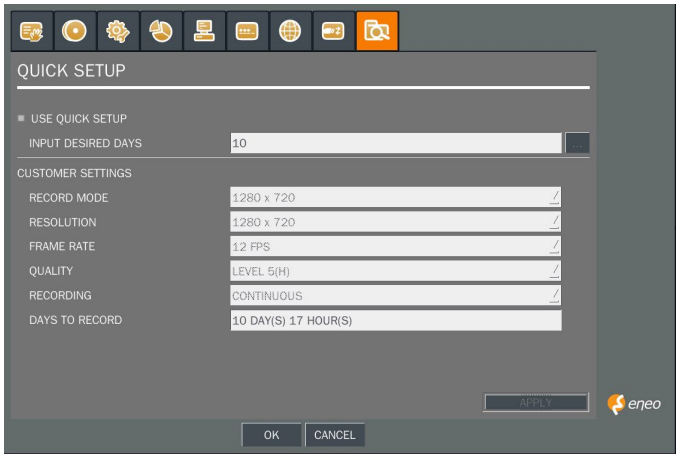


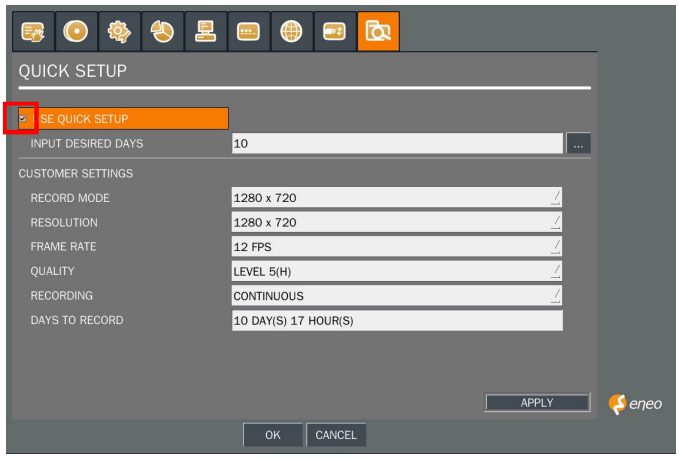


Setup menu tree

A default Password is 1111.

Press the SETUP button and select QUICK SETUP icon. Then, the QUICK SETUP menu is displayed as picture below. Navigate through the menu items using the mouse or the control button (◄ ▲ ► ▼) on the remote control and change the value of the menu item.





Item	Description
USE QUICK SETUP	Tick in a box to use the Quick Setup. When user inputs period which they want to record, the system displays a recommended resolution, frame rate, quality and recording type after calculating the capacity of the mounted HDD. At that time, the priority is followed by the order of the items; resolution, frame rate, quality and recording type.
CUSTOMER SETTINGS	User can change the setting value such as resolution, frame rate, quality and recording type. By the setting value, the days to record will change.
DUAL STREAM	User can set the dual stream. This dual stream setting takes precedence over the network stream setting of Network menu.

The QUICK SETUP has high priority than other setting values on RECORDING and NETWORK menu. The QUICK SETUP also cannot set to classified according to channel.
If user removes the check box of Use Quick Setup, he/she can set the recording and network setting value in detail.

For more detail information about a setup, search, playback and so on, please read a user manual in the enclosed CD.

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